

OIL ANALYSIS REPORT

**VOLVO
PENTA**

BRIAN 7011446309 - PORT DIESEL ENGINE

Sample No: VPA045996
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA045996	VPA034118	VPA034239	VPA027245
Sample Date	15 Aug 2023	13 Jan 2023	15 Sep 2022	22 Mar 2022
Machine Hours	8156	7016	6459	5506
Oil Hours	451	320	250	225
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

FURY KEY WEST
313 MARGARET ST
KEY WEST, FL
US 33040
Contact: MARCEL GELUK
marcel@furykeywest.com
T:
F:

OIL CONDITION

Visc @ 100°C	cSt	12.0	12.1	12.1	12.1
Base Number (BN)	mg KOH/g	8.9	9.7	5.3	10.3
Oxidation (PA)	%	61	56	68	60

CONTAMINATION

Soot %	%	0.5	0.4	0.2	0.4
Nitration (PA)	%	61	53	73	58
Sulfation (PA)	%	56	53	60	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	2	1
Sodium	ppm	3	2	<1	<1
Potassium	ppm	<1	1	<1	0

WEAR METALS

Iron	ppm	5	4	4	4
Copper	ppm	13	15	6	14
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	1	0	0	<1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	58	57	60	57
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1199	1027	1046	1072
Magnesium	ppm	867	860	912	961
Zinc	ppm	1234	1168	1206	1146
Phosphorus	ppm	1018	977	1032	1034
Barium	ppm	0	0	0	0
Boron	ppm	9	1	1	4

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: VPFURKEY
Unique No: 10608018
Signed: Don Baldrige
Report Date: 21 Aug 2023

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GRAPHS

